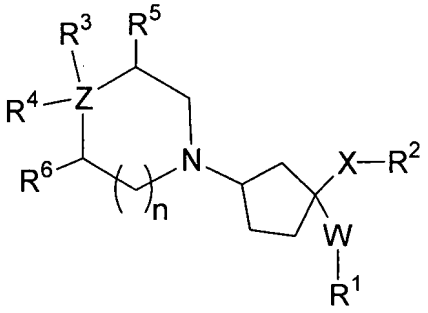
Amendments To the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A compound of the formula I:



I

wherein:

X is selected from the group consisting of:

$-NR^{10}-$, $-O-$, $-CH_2O-$, $-CONR^{10}-$, $-NR^{10}CO-$, $-CO_2-$, $-OCO-$, $-CH_2(NR^{10})CO-$, $-N(COR^{10})-$, $-CH_2N(COR^{10})-$, phenyl, and C_{3-6} cycloalkyl,

where R^{10} is independently selected from: hydrogen, C_{1-6} alkyl, benzyl, phenyl, and C_{1-6} alkyl-C_{3-6} cycloalkyl,

which is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from: halo, C_{1-3}alkyl, C_{1-3}alkoxy and trifluoromethyl;

W is selected from:

phenyl and heterocycle, which is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from: halo, C_{1-3}alkoxy and trifluoromethyl;

Z is C;

~~Z is selected from:~~

~~C, N, and -O-, wherein when Z is N, then R^4 is absent, and when W is -O-, then both R^3 and R^4 are absent;~~

n is an integer selected from 0, 1, 2, 3 and 4;

R^1 is selected from:

(a) halo,
(b) trifluoromethyl,
(c) trifluoromethoxy,
(d) hydroxy,
(e) C_{1-6}alkyl,
(f) C_{3-7}cycloalkyl,
(g) -O-C_{1-6}alkyl,
(h) -O-C_{3-7}cycloalkyl,
(i) $-SCF_3$,
(j) -S-C_{1-6}alkyl,
(k) $-SO_2$-C_{1-6}alkyl,
(l) phenyl,
(m) heterocycle,
(n) $-CO_2R^9$,
(o) -CN,
(p) $-NR^9R^{10}$,
(q) $-NR^9$-SO_2-R^{10},
(r) $-SO_2$-NR^9R^{10}, ~~and~~
(s) $-CONR^9R^{10}$
(t) $-NHC(=NH)NH^2$, and
(u) hydrogen,

R^2 is selected from:

(C_{0-6}alkyl)-phenyl and (C_{0-6}alkyl)-heterocycle,

where the alkyl is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

(a) halo,
(b) hydroxy,
(c) -O-C_{1-3}alkyl,
(d) trifluoromethyl, and
(e) -C_{1-3}alkyl,

and where the phenyl and the heterocycle is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) trifluoromethoxy,
(d) hydroxy,
(e) C_{1-6}alkyl,
(f) C_{3-7}cycloalkyl,
(g) -O-C_{1-6}alkyl,
(h) -O-C_{3-7}cycloalkyl,
(i) $-SCF_3$,
(j) -S-C_{1-6}alkyl,
(k) $-SO_2$-C_{1-6}alkyl,
(l) phenyl,
(m) heterocycle,
(n) $-CO_2R^9$,
(o) -CN,
(p) $-NR^9R^{10}$,
(q) $-NR^9$-SO_2-R^{10},
(r) $-SO_2$-NR^9R^{10}, and
(s) $-CONR^9R^{10}$;

R^3 is -(C_{0-6}alkyl)-phenyl,

where the alkyl is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

(a) halo,
(b) hydroxy,
(c) -O-C_{1-3}alkyl, and
(d) trifluoromethyl,

and where the phenyl is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) hydroxy,
(d) C_{1-3}alkyl,
(e) -O-C_{1-3}alkyl,
(f) $-CO_2R^9$,
(g) -CN,
(h) $-NR^9R^{10}$, and

(i) $-CONR^9R^{10}$;

R^4 is selected from:

(a) hydrogen,
(b) hydroxy,
(c) C_{1-6}alkyl,
(d) C_{1-6}alkyl-hydroxy,
(e) $-O-C_{1-3}$alkyl,
(f) $-CO_2R^9$,
(g) $-CONR^9R^{10}$, and
(h) -CN;

or where R^3 and R^4 may be joined together to form a ring which is selected from:

(a) 1H-indene,
(b) 2,3-dihydro-1H-indene,
(c) 2,3-dihydro-benzofuran,
(d) 1,3-dihydro-isobenzofuran,
(e) 2,3-dihydro-benzothiofuran, and
(f) 1,3-dihydro-isobenzothiofuran,

or where R^3 and R^5 or R^4 and R^6 may be joined together to form a ring which is phenyl,

wherein the ring is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) hydroxy,
(d) C_{1-3}alkyl,
(e) $-O-C_{1-3}$alkyl,
(f) $-CO_2R^9$,
(g) -CN,
(h) $-NR^9R^{10}$, and
(i) $-CONR^9R^{10}$;

R^5 and R^6 are independently selected from:

(a) hydrogen,
(b) hydroxy,

(c) C_{1-6}alkyl,

(d) C_{1-6}alkyl-hydroxy,

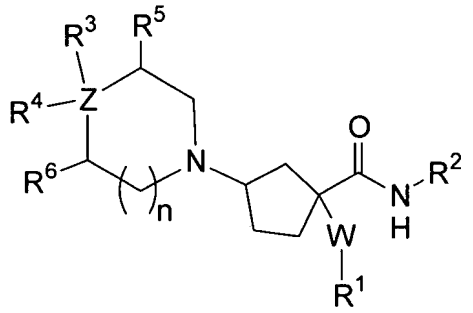
(e) -O-C_{1-3}alkyl,

(f) oxo, and

(g) halo;

and pharmaceutically acceptable salts thereof and individual diastereomers thereof.

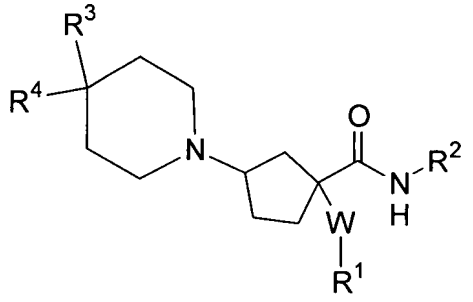
2. (original) The compound of Claim 1 of the formula Ia:



Ia

and pharmaceutically acceptable salts and individual diastereomers thereof.

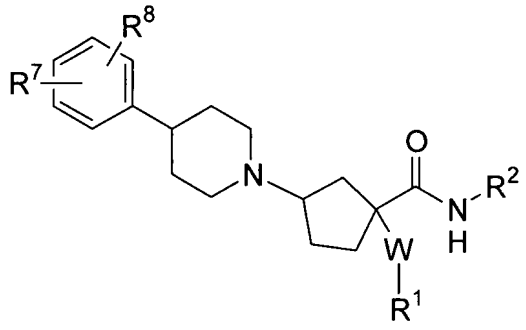
3. (original) The compound of Claim 1 of the formula Ib:



Ib

and pharmaceutically acceptable salts and individual diastereomers thereof.

4. (currently amended) The compound of Claim 1 of the formula Ic:



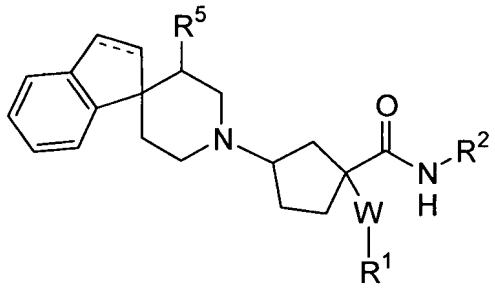
Ic

~~and~~ wherein R^7 and R^8 are independently selected from:

(a) hydrogen,
(b) halo,
(c) trifluoromethyl,
(d) hydroxy,
(e) C_{1-3}alkyl,
(f) -O-C_{1-3}alkyl,
(g) -CO_2H,
(h) -CO_2C_{1-3}alkyl, and
(i) -CN;

and pharmaceutically acceptable salts and individual diastereomers thereof.

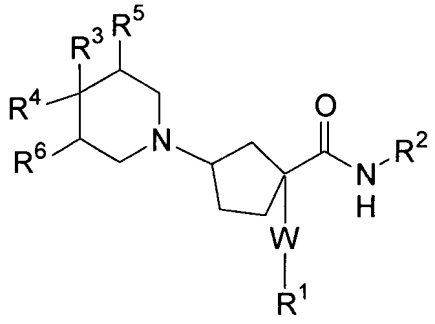
5. (original) The compound of Claim 1 of the formula Id:



Id

wherein the dash line represents either single or double bonds;
and pharmaceutically acceptable salts and individual diastereomers thereof.

6. (original) The compound of Claim 1 of the formula:



wherein W is selected from furanyl, imidazolyl, oxadiazolyl, oxazolyl, phenyl, pyrazolyl, pyrazinyl, pyridyl, pyridazinyl, pyrimidyl, pyrrolyl, thiadiazolyl, and thiazolyl, and pharmaceutically acceptable salts and individual diastereomers thereof.

7. (original) The compound of Claim 1 wherein W is selected from furanyl, imidazolyl, oxadiazolyl, oxazolyl, phenyl, pyrazolyl, pyrazinyl, pyridyl, pyridazinyl, pyrimidyl, pyrrolyl, thiadiazolyl, thiazolyl, thienyl, and triazolyl, and N-oxides thereof.

8. (original) The compound of Claim 1 wherein X is -CONH-.

9. (canceled)

10. (currently amended) The compound of Claim 1 wherein n is 0 ~~and~~ or 1.

11. (original) The compound of Claim 1 wherein R^1 is selected from:

(a) hydrogen
(b) halo
(c) C_{1-3}alkyl,
(d) -O-C_{1-3}alkyl,
(e) -CO_2R^9,
(f) -S-C_{1-3}alkyl,
(g) -SO_2-C_{1-3}alkyl,
(h) -SCF_3,
(i) $NHC(=NH)NR^9R^{10}$
(j) -NR^9R^{10},

(k) $-NR^9-SO_2-R^{10}$,

(l) $-SO_2-NR^9R^{10}$, and

(m) $-CONR^9R^{10}$.

12. (original) The compound of Claim 1 wherein R^2 is selected from $-(C_{0-4}alkyl)$-phenyl and $-(C_{0-4}alkyl)$-heterocycle,

where heterocycle is selected from:

furanyl, imidazolyl, oxadiazolyl, oxazolyl, pyrazolyl, pyrazinyl, pyridyl, pyridazinyl, pyrimidyl, pyrrolyl, thiadiazolyl, thiazolyl, thienyl, and triazolyl, and N-oxides thereof,

where the alkyl is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

(a) halo,

(b) hydroxy,

(c) $-O-C_{1-3}alkyl$, and

(d) trifluoromethyl,

and where the phenyl or heterocycle is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

(a) halo,

(b) trifluoromethyl,

(c) trifluoromethoxy,

(d) hydroxy,

(e) $C_{1-3}alkyl$,

(f) $-O-C_{1-3}alkyl$,

(g) $-CO_2R^9$,

(h) $-S-C_{1-3}alkyl$,

(i) $-SO_2-C_{1-3}alkyl$,

(j) $-SCF_3$,

(k) $-CO_2R^9$,

(l) $-NR^9R^{10}$,

(m) $-NR^9-SO_2-R^{10}$,

(n) $-SO_2-NR^9R^{10}$, and

(o) $-CONR^9R^{10}$.

13. (original) The compound of Claim 1 wherein R^2 is selected from $-(C_{0-4}alkyl)$-phenyl and $-(C_{0-4}alkyl)$-heterocycle,

where heterocycle is selected from: pyridyl, pyridazinyl, and N-oxides thereof, where the alkyl is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:

(a) halo,
(b) hydroxy,
(c) -O-C_{1-3}alkyl, and
(d) trifluoromethyl,

and where the phenyl or heterocycle is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) trifluoromethoxy,
(d) hydroxy,
(e) C_{1-3}alkyl,
(f) -O-C_{1-3}alkyl,
(g) -CO_2-C_{1-3}alkyl,
(h) -CO_2H,
(i) -S-C_{1-3}alkyl,
(j) -SO_2-C_{1-3}alkyl,
(k) -SCF_3,
(l) -NH_2,
(m) -NH-SO_2-C_{1-3}alkyl, and
(n) -SO_2-NH_2.

14. (original) The compound of Claim 1 wherein R^2 is selected from -CH_2-phenyl and -CH_2-heterocycle,

where heterocycle is selected from: pyridyl, pyridazinyl, and N-oxides thereof, and where the phenyl or heterocycle is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) trifluoromethoxy,
(d) hydroxy,
(e) C_{1-3}alkyl,
(f) -O-C_{1-3}alkyl,
(g) -CO_2-C_{1-3}alkyl,
(h) -CO_2H,

(i) -S-C_{1-3}alkyl,
(j) -SO_2-C_{1-3}alkyl,
(k) -SCF_3,
(l) -NH_2,
(m) -NH-SO_2-C_{1-3}alkyl, and
(n) -SO_2-NH_2.

15. (original) The compound of Claim 1 wherein R^2 is selected from:
(1) -CH_2-(phenyl),
(2) -CH_2-(4-bromophenyl),
(3) -CH_2-(3-chlorophenyl),
(4) -CH_2-(3,5-difluorophenyl),
(5) -CH_2-((2-trifluoromethyl)phenyl),
(6) -CH_2-((3-trifluoromethyl)phenyl),
(7) -CH_2-((4-trifluoromethyl)phenyl),
(8) -CH_2-((3-trifluoromethoxy)phenyl),
(9) -CH_2-((3-trifluoromethylthio)phenyl),
(10) -CH_2-((3-trifluoromethoxy-5-thiomethyl)phenyl),
(11) -CH_2-((3-trifluoromethoxy-5-methoxy)phenyl),
(12) -CH_2-((3-trifluoromethoxy-5-methanesulfonyl)phenyl),
(13) -CH_2-((3-trifluoromethoxy-5-amino)phenyl),
(14) -CH_2-((3-trifluoromethoxy-5-aminomethanesulfonyl)phenyl),
(15) -CH_2-((3-trifluoromethoxy-5-sulfonylamino)phenyl),
(16) -CH_2-((3,5-bis-trifluoromethyl)phenyl),
(17) -CH_2-((3-fluoro-5-trifluoromethyl)phenyl),
(18) -$CH(CH_3)$-((3,5-bis-trifluoromethyl)phenyl),
(19) -$C(CH_3)_2$-((3,5-bis-trifluoromethyl)phenyl),
(20) -CH_2-(4-(2-trifluoromethyl)pyridyl),
(21) -CH_2-(5-(3-trifluoromethyl)pyridyl),
(22) -CH_2-(5-(3-trifluoromethyl)pyridazinyl),
(23) -CH_2-(4-(2-trifluoromethyl)pyridyl-N-oxide), and
(24) -CH_2-(5-(3-trifluoromethyl)pyridyl-N-oxide).

16. (original) The compound of Claim 1 wherein R^3 is hydrogen or phenyl, where the phenyl is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:

(a) halo,
(b) trifluoromethyl,
(c) hydroxy,
(d) C_{1-3}alkyl,
(e) -O-C_{1-3}alkyl,
(f) -CO_2R^9,
(g) -CN,
(h) -NR^9R^{10}, and
(i) -$CONR^9R^{10}$.

17. (original) The compound of Claim 1 wherein R^3 is hydrogen or phenyl, where the phenyl is unsubstituted or substituted with 1-3 substituents where the substituents are independently selected from:

(a) halo,
(c) hydroxy,
(d) C_{1-3}alkyl,
(e) -O-C_{1-3}alkyl, and
(f) -CO_2R^9.

18. (original) The compound of Claim 1 wherein R^3 is phenyl, or para-fluorophenyl.

19. (currently amended) The compound of Claim 1 wherein R^4 is selected from:

(a) hydrogen,
(b) hydroxy,
(c) -CO_2H,
(d) -CO_2C_{1-6}alkyl, and
(e) -CN.

20. (original) The compound of Claim 1 wherein R^5 and R^6 are independently selected from:

(a) hydrogen,
(b) hydroxy,
(c) -CH_3,
(d) -O-CH_3, and
(e) oxo.

21. (original) A compound which is selected from the group consisting of the title compounds of the Examples, and pharmaceutically acceptable salts and individual diastereomers thereof.

22. (original) A pharmaceutical composition which comprises an inert carrier and a compound of Claim 1.

23. (canceled)

24. (original) A method for treating, ameliorating or controlling an inflammatory or immunoregulatory disorder or disease which comprises administering to a patient in need thereof an effective amount of the compound of Claim 1.

25. (canceled)

26. (original) A method for treating, ameliorating or controlling rheumatoid arthritis which comprises administering to a patient in need thereof an effective amount of the compound of Claim 1.